

includes an endoscope in combination with an endoscopically insertable catheter having an ultrasound imaging device for imaging a tissue structure located at a distal end of the endoscope and an endoscopically insertable interventional device for engaging the tissue structure imaged by the ultrasound imaging device. The assembly may also include optical fibers extending through the catheter shaft for transmitting light to tissue located at a distal end of the catheter and conveying light back from the tissue for analysis.

In the Claims:

Please cancel claims 1-35, without prejudice. Please add new claims 52-55, as follows.

52. (New) An assembly comprising:
- an endoscope;
 - an elongated catheter shaft constructed to be inserted through a first working channel of the endoscope;
 - an ultrasound imaging device disposed at a distal end of the elongated catheter shaft;
 - and
 - an interventional device constructed to be inserted through a second working channel of the endoscope and for engaging tissue imaged by the ultrasound imaging device.
53. (New) The assembly of claim 52 further comprising:
- a first optical fiber extending through the catheter shaft for transmitting light to tissue located at the distal end of the elongated catheter shaft; and
 - a second optical fiber extending through the catheter shaft for conveying light back from the tissue.
54. (New) The assembly of claim 52, wherein the interventional device is selected from the group consisting of a scalpel, forceps jaws, a snare, scissors, and a needle.